

Department of Energy

Pt. 431, Subpt. B, App. C

Temperature for Resistance Correction (t_s)
= $-^{\circ}\text{C}$ (See 6.4.3.2).

(v) Page 47, at the bottom of 10.2 Form B, after the first sentence to footnote t_i , the following additional sentence applies:

The values for t_s and t_i shall be based on the same method of temperature measurement, selected from the four methods in subclause 8.3.

(vi) Page 47, at the bottom of 10.2 Form B, below the footnotes and above "Summary of Characteristics," the following additional note applies:

NOTE: The temperature for resistance correction (t_s) is equal to $[(4) - (5) + 25^{\circ}\text{C}]$.

(vii) Page 48, item (22), the torque constants " $k = 9.549$ for torque, in N·m" and " $k = 7.043$ for torque, in lbf·ft" do not apply. Instead, the following applies:

" $k_2 = 9.549$ for torque, in N·m" and " $k_2 = 7.043$ for torque, in lbf·ft."

(viii) Page 48, at the end of item (27), the following additional reference applies:

"See 6.4.3.2."

(ix) Page 48, item (29). "See 4.3.2.2, Eq. 4," does not apply. Instead the following applies:

Is equal to $(10) \cdot [k_1 + (4) - (5) + 25^{\circ}\text{C}] / [k_1 + (7)]$, see 6.4.3.3."

3. *Amendments to test procedures.*

Any revision to IEEE Standard 112-1996 Test Method B with correction notice of January 20, 1998, to NEMA Standards Publication MG1-1993 with Revisions 1 through 4, or to CSA Standard C390-93 Test Method (I), subsequent to promulgation of this appendix B, shall not be effective for purposes of test procedures required under part 431 and this appendix B, unless and until part 431 and this appendix B are amended.

APPENDIX C TO SUBPART B OF PART 431—COMPLIANCE CERTIFICATION

CERTIFICATION OF COMPLIANCE WITH ENERGY EFFICIENCY STANDARDS FOR ELECTRIC MOTORS (OFFICE OF MANAGEMENT AND BUDGET CONTROL NUMBER: 1910-1400. EXPIRES FEBRUARY 13, 2014)

An electronic form is available at <https://www.regulations.doe.gov/ccms/>.

1. Name and Address of Company (the "company"):

2. Name(s) to be Marked on Electric Motors to Which this Compliance Certification Applies:

3. If manufacturer or private labeler wishes to receive a unique Compliance Certification number for use with any particular brand name, trademark, or other label name, fill out the following two items:

A. List each brand name, trademark, or other label name for which the company requests a Compliance Certification number:

B. List other name(s), if any, under which the company sells electric motors (if not listed in item 2 above):

Submit electronically at <https://www.regulations.doe.gov/ccms/>.

Submit paper form by Certified Mail to: U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Building Technologies (EE-2J), Forrestal Building, 1000 Independence Avenue, SW., Washington, DC 20585-0121.

This Compliance Certification reports on and certifies compliance with requirements contained in 10 CFR Part 431 (Energy Conservation Program for Certain Commercial and Industrial Equipment) and Part C of the Energy Policy and Conservation Act (Pub. L. 94-163), and amendments thereto. It is signed by a responsible official of the above named company. Attached and incorporated as part of this Compliance Certification is a Listing of Electric Motor Efficiencies. For each rating of electric motor* for which the Listing specifies the nominal full load efficiency of a basic model, the company distributes no less efficient basic model with that rating and all basic models with that rating comply with the applicable energy efficiency standard.

*For this purpose, the term "rating" means one of the combinations of an electric motor's horsepower (or standard kilowatt equivalent), number of poles, motor type, and open or enclosed construction, with respect to which § 431.25 of 10 CFR Part 431 prescribes nominal full load efficiency standards.

Person to Contact for Further Information:

Name: _____

Address: _____

Telephone Number: _____

Facsimile Number: _____

If any part of this Compliance Certification, including the Attachment, was prepared by a third party organization under the provisions of 10 CFR 431.36, the company

Pt. 431, Subpt. B, App. C

10 CFR Ch. II (1–12 Edition)

official authorizing third party representations:

Name: _____

Address: _____

Telephone Number: _____

Facsimile Number: _____

Third Party Organization Officially Acting as Representative: _____

Third Party Organization: _____

Responsible Person at the Organization: _____

Address: _____

Telephone Number: _____

Facsimile Number: _____

All required determinations on which this Compliance Certification is based were made in conformance with the applicable requirements in 10 CFR Part 431, subpart B. All in-

formation reported in this Compliance Certification is true, accurate, and complete. The company is aware of the penalties associated with violations of the Act and the regulations thereunder, and is also aware of the provisions contained in 18 U.S.C. 1001, which prohibits knowingly making false statements to the Federal Government.

Signature: _____

Date: _____

Name: _____

Title: _____

Firm or Organization: _____

ATTACHMENT OF CERTIFICATION OF COMPLIANCE WITH ENERGY EFFICIENCY STANDARDS FOR ELECTRIC MOTOR EFFICIENCIES

Date: _____

Name of Company: _____

Motor Type (i.e., general purpose electric motor (subtype I), fire pump electric motor, general purpose electric motor (subtype II), NEMA Design B general purpose electric motor)

Motor horsepower/standard kilowatt equivalent	Least efficient basic model—(model numbers(s)) Nominal full-load efficiency							
	Open motors (number of poles)				Enclosed motors (number of poles)			
	8	6	4	2	8	6	4	2
1/75	_____	_____	_____	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____	_____	_____	_____
1.5/1.1	_____	_____	_____	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____	_____	_____	_____
2/1.5	_____	_____	_____	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____	_____	_____	_____
3/2.2	_____	_____	_____	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____	_____	_____	_____
5/3.7	_____	_____	_____	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____	_____	_____	_____
Etc	_____	_____	_____	_____	_____	_____	_____	_____
	_____	_____	_____	_____	_____	_____	_____	_____

Note: Place an asterisk beside each reported nominal full load efficiency that is determined by actual testing rather than by application of an alternative efficiency determination method. Also list below additional basic models that were subjected to actual testing.

Basic Model means all units of a given type of electric motor (or class thereof) manufactured by a single manufacturer, and which (i)

have the same rating, (ii) have electrical design characteristics that are essentially identical, and (iii) do not have any differing

Department of Energy

§ 431.62

physical or functional characteristics that affect energy consumption or efficiency.

Rating means one of the combinations of an electric motor's horsepower (or standard kilowatt equivalent), number of poles, motor

type, and open or enclosed construction, with respect to which § 431.25 of 10 CFR Part 431 prescribes nominal full load efficiency standards.

MODELS ACTUALLY TESTED AND NOT PREVIOUSLY IDENTIFIED

Motor horsepower/standard kilowatt equivalent	Least efficient basic model—(model numbers(s)) Nominal full-load efficiency							
	Open motors (number of poles)				Enclosed motors (number of poles)			
	8	6	4	2	8	6	4	2
.....	_____	_____	_____	_____	_____	_____	_____	_____
.....	_____	_____	_____	_____	_____	_____	_____	_____
.....	_____	_____	_____	_____	_____	_____	_____	_____
.....	_____	_____	_____	_____	_____	_____	_____	_____
.....	_____	_____	_____	_____	_____	_____	_____	_____
.....	_____	_____	_____	_____	_____	_____	_____	_____
.....	_____	_____	_____	_____	_____	_____	_____	_____
.....	_____	_____	_____	_____	_____	_____	_____	_____
.....	_____	_____	_____	_____	_____	_____	_____	_____
.....	_____	_____	_____	_____	_____	_____	_____	_____
Etc	_____	_____	_____	_____	_____	_____	_____	_____
.....	_____	_____	_____	_____	_____	_____	_____	_____

[76 FR 59006, Sept. 23, 2011]

Subpart C—Commercial Refrigerators, Freezers and Refrigerator-Freezers

SOURCE: 70 FR 60414, Oct. 18, 2005, unless otherwise noted.

§ 431.61 Purpose and scope.

This subpart contains energy conservation requirements for commercial refrigerators, freezers and refrigerator-freezers, pursuant to Part C of Title III of the Energy Policy and Conservation Act, as amended, 42 U.S.C. 6311–6317.

§ 431.62 Definitions concerning commercial refrigerators, freezers and refrigerator-freezers.

Air-curtain angle means:

(1) For equipment without doors and without a discharge air grille or dis-

charge air honeycomb, the angle between a vertical line extended down from the highest point on the manufacturer's recommended load limit line and the load limit line itself, when the equipment is viewed in cross-section; and

(2) For all other equipment without doors, the angle formed between a vertical line and the straight line drawn by connecting the point at the inside edge of the discharge air opening with the point at the inside edge of the return air opening, when the equipment is viewed in cross-section.

Basic model means all units of a given type of covered product (or class thereof) manufactured by one manufacturer, having the same primary energy source, and which have essentially identical electrical, physical, and functional (or hydraulic) characteristics